

Water - Certificate of Analysis - E25-00-6072

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
Contact:	Lab Results	Contact:	EAL Customer Service Team
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Customer reference:	RVC Raw & Finished Monthly 03/06/25	Request ID:	EAL/E25-00-6072
Number of samples:	2	Report ID:	E25-00-6072_EALP3_1
Date samples received:	03 June 2025	Issue date:	19 June 2025

Authorised by:	Alex Smith
Position:	Senior Technical Officer



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

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Client Sample ID:				RVC Finished	RVC Raw
Sample Date:				3 June 2025	3 June 2025
Sample Time:				11:10	10:00
Sampled By:				AH	CC
Your Client:				Richmond Valley Council	Richmond Valley Council
EAL Sample ID:				E25-00-6072-0001	E25-00-6072-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	7.05	7.42
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.256	0.196
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	174	133
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	88
Turbidity	NTU	APHA 2130	<1	< 1	98
True Colour	PtCo	** APHA 2120	<5	< 5	58
Apparent Colour	PtCo	** APHA 2120	<5	< 5	930
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	83	89
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	89	94
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	9100
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	1800
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.90	6.06
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	17.9	17.2
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	10.1	9.87
Chloride/Sulfate Ratio	---	Dissolved - APHA 3125 ICPMS	---	0.5	n.a.
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.020	0.115
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	< 0.005	0.287
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.003
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.021	0.825
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	2.18
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.152
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	2.07	4.72
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.048	0.286
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.156	0.141
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	< 0.005
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	---
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE284139	---
Chloroform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	12	---
Bromodichloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	5.8	---
Dibromochloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	1.8	---
Bromoform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	---
Total THM	µg/L	** Subcontracted SGS Laboratories Australia	<2	19	---
Envirolab Report No.	---	** Subcontracted Envirolab	---	---	PGF0280
Geosmin	ng/L	** Subcontracted Envirolab	---	---	<2.0
2-Methylisoborneol	ng/L	** Subcontracted Envirolab	---	---	<2.0

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.

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- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm